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[54] **DISPLAY APPARATUS**

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[*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

[57] ABSTRACT

A display apparatus includes a display unit for displaying images, a backlight unit disposed behind the display unit for illuminating the display unit, an inverter unit for electrically controlling the backlight unit, a controller unit for controlling the inverter unit and the display unit, and a power supply unit having an exothermic heat distribution for supplying electricity to the inverter unit and the controller unit. The inverter unit and controller unit are disposed behind the backlight unit and the power supply unit is disposed on a side of the display unit, backlight unit, inverter unit and controller unit. The display unit, backlight unit, inverter unit, controller unit and power supply unit are disposed in a common housing. The inverter unit and the controller unit are arranged behind the backlight unit. An insulating member is further disposed between the power supply unit and the display unit at a position corresponding to a region of relatively large exothermic heat of the power supply unit, and the insulating member is disposed at a diagonal position with respect to the inverter unit. The display apparatus may be supported by a support structure including vertically tilting and laterally turning mechanisms.

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[51] Int. Cl.⁷ **G09G 3/36**

[52] U.S. Cl. **345/87; 345/905**

[58] Field of Search 345/87, 905, 102; 361/681; 349/58, 61; 248/919, 921-923

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67 Claims, 152 Drawing Sheets

